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FILE COVERS 1907 - 22 Sep 2011 VOL 155 ISS 13  
FILE LAST UPDATED: 21 Sep 2011 (20110921/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

CPlus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2011.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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E3      1 --> US20070055085/PN
E4      2   US20070055086/PN
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E7      1   US20070055093/PN
E8      1   US20070055094/PN
E9      1   US20070055095/PN
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E11     1   US20070055099/PN
E12     1   US20070055102/PN
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→ 3.1.1

1.1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS OR STN

AN 2005:523395 CAPLUS  
 DN 143:68072  
 ED Entered STN: 17 Jun 2005  
 TI Asymmetric monoanthracene derivative, material for organic  
 electroluminescent device and organic electroluminescent device utilizing  
 the same  
 IN Kubota, Mineyuki; Funahashi, Masakazu  
 PA Idemitsu Kosan Co., Ltd., Japan  
 SO PCT Int. Appl., 100 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related  
 Properties)  
 Section cross-reference(s): 25  
 FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005054162	A1	20050616	WO 2004-JP18111	20041130
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1707550	A1	20061004	EP 2004-799959	20041130
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CN	1871192	A	20061129	CN 2004-80031556	20041130
CN	100471827	C	20090325		
US	20070055085	A1	20070308	US 2006-572586	20060320 <--
KR	2006108642	A	20061018	KR 2006-7008388	20060428
IN	2006CN01453	A	20070706	IN 2006-CN1453	20060428
IN	234627	A1	20090717		
IN	2009CN01179	A	20090529	IN 2009-CN1179	20090302
PRAI	JP 2003-401038	A	20031201		
	WO 2004-JP18111	W	20041130		
	IN 2006-CN1453	A3	20060428		

CLASS		CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005054162	IPCI	C07C0015-27 [ICM,7]; C09K0011-06 [ICS,7]; H05B0033-14 [ICS,7]	
	IPCR	C07C0013-573 [I,A]; C07C0015-27 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]; H01L0051-50 [N,A]; H05B0033-14 [I,A]	
	ECLA	C09K0011/06; C07C013/573; C07C015/28; H01L051/00M6D; H01L051/00M6D12; H05B0033/14; M07C103:24; M09K211:10B2; M09K211:10B4; M09K211:10B6; M09K211:10D4D2; T01L051:00M6F; T01L051:00M6F2; T01L051:00M12D4; T01L051:50E	
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**ECLA** C09K011/06; C07C013/573; C07C015/28; H01L051/00M6D;  
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**CN 1871192** **IPCI** C07C0015-27 [I,A]; C09K0011-06 [I,A]; H05B0033-14  
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 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A];  
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**ECLA** C09K011/06; C07C013/573; C07C015/28; H01L051/00M6D;  
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**US 20070055085** **IPCI** H01L0051-54 [I,A]; C09K0011-06 [I,A]  
**NCL** 585/026.000; 257/E51.049; 313/504.000; 313/506.000;  
 428/690.000; 428/917.000

**KR 2006108642** **IPCI** C07C0015-27 [I,A]; C07C0015-28 [I,A]; C09K0011-06  
 [I,A]; H05B0033-14 [I,A]

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 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A];

**ECLA** H01L0051-50 [I,A]; H05B0033-14 [I,A]  
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 T01L051:50E

**IN 2006CN01453** **IPCI** C07C0015-27 [ICM,7]; C09K0011-06 [ICS,7]

**IN 2009CN01179** **IPCI** C07C0015-27 [ICM,7]

**OS MARPAT 143:68072**  
**AB** An asym. monoanthracene derivative of specified structure; and a material for organic EL device comprising the asym. monoanthracene derivative. There is further provided an organic EL device comprising neg. and pos. electrodes and, interposed there between, an organic thin film layer consisting of one or two or more layers including at least a light emitting layer, wherein at least one layer of the organic thin film layer contains the asym. monoanthracene derivative alone or as a component of mixture. There are provided an organic electroluminescent (EL) device of high luminous efficiency and prolonged durability and, for realization thereof, an asym. monoanthracene derivative and material for organic EL device.

**ST** asym monoanthracene deriv org electroluminescent device

**IT** Electroluminescent devices  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

**IT** 2085-33-8 154853-83-5 164724-35-0 209980-53-0 669016-16-4  
 853945-46-7 853945-47-8

**RL:** DEV (Device component use); USES (Uses)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

**IT** 853945-27-4P 853945-29-6P 853945-36-5P

**RL:** DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

**IT** 68572-87-2P, 9-Phenanthrenylboronic acid 260558-15-4P 641144-16-3P  
 1219077-31-2P

**RL:** IMF (Industrial manufacture); PRPH (Prophetic); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)  
 IT 573-17-1, 9-Bromophenanthenrene 18801-00-8, 2-tert-Butylanthracene  
 RL: PRPH (Prophetic); RCT (Reactant); RACT (Reactant or reagent)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)  
 IT 853945-28-5P 853945-30-9P 853945-31-0P 853945-32-1P 853945-33-2P  
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 853945-40-1P 853945-41-2P 853945-42-3P 853945-43-4P 853945-44-5P  
 853945-45-6P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)  
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 853945-51-4 853945-52-5 853945-53-6 853945-54-7 853945-55-8  
 853945-56-9 853945-57-0 853945-58-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)  
 IT 853945-48-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)  
 OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)  
 UPOS.G Date last citing reference entered STN: 08 Oct 2009  
 OS.G CAPLUS 2007:964034; 2007:565222; 2008:1427844; 2006:1034175  
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE CITED REFERENCES  
 (1) Idemitsu Kosan Co Ltd; JP 2000273056 A 2000 CAPLUS  
 (2) Idemitsu Kosan Co Ltd; WO 0172673 A1 2002 CAPLUS  
 (3) Idemitsu Kosan Co Ltd; EP 1182183 A1 2002 CAPLUS  
 (4) Idemitsu Kosan Co Ltd; US 2002048687 A1 2002 CAPLUS  
 (5) Idemitsu Kosan Co Ltd; EP 1333018 A1 2003 CAPLUS  
 (6) Idemitsu Kosan Co Ltd; JP 2001335516 A 2003 CAPLUS  
 (7) Tdi Corp; JP 200333875 A 2003 CAPLUS  
 (8) Xerox Corp; US 20020132134 A1 2002 CAPLUS

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STRUCTURE FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5  
 DICTIONARY FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5

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<http://www.cas.org/support/stngen/stndoc/properties.html>

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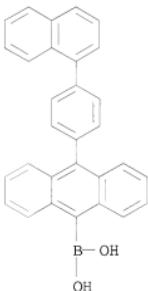
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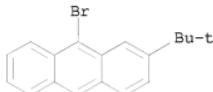


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11 REFERENCES IN FILE CA (1907 TO DATE)  
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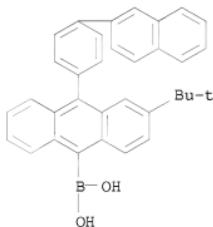
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LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-58-1 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Boronic acid, B-[3-(1,1-dimethylethyl)-10-(4-(2-naphthalenyl)phenyl)-9-anthracyenyl]- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Boronic acid, [3-(1,1-dimethylethyl)-10-(4-(2-naphthalenyl)phenyl)-9-anthracyenyl]- (9CI)  
MF C34 H29 B O2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

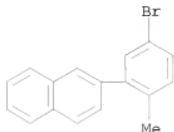


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-57-0 REGISTRY

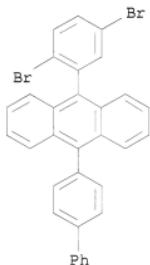
ED    Entered STN: 06 Jul 2005  
CN    Naphthalene, 2-(5-bromo-2-methylphenyl)- (CA INDEX NAME)  
MF    C17 H13 Br  
SR    CA  
LC    STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2    ANSWER 4 OF 52    REGISTRY    COPYRIGHT 2011 ACS on STN  
RN    853945-56-9    REGISTRY  
ED    Entered STN: 06 Jul 2005  
CN    Anthracene, 9-[1,1'-biphenyl]-4-yl-10-(2,5-dibromophenyl)- (CA INDEX  
NAME)  
MF    C32 H20 Br2  
SR    CA  
LC    STN Files: CA, CAPLUS, USPATFULL

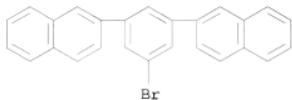


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2    ANSWER 5 OF 52    REGISTRY    COPYRIGHT 2011 ACS on STN  
RN    853945-55-8    REGISTRY  
ED    Entered STN: 06 Jul 2005  
CN    Naphthalene, 2,2'-(5-bromo-1,3-phenylene)bis- (9CI) (CA INDEX NAME)  
MF    C26 H17 Br

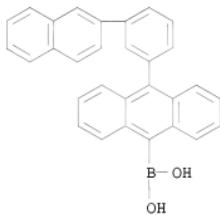
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

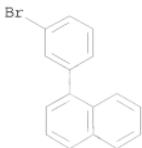
L2 ANSWER 6 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-54-7 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Boronic acid, B-[10-[3-(2-naphthalenyl)phenyl]-9-anthracenyl]- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Boronic acid, [10-[3-(2-naphthalenyl)phenyl]-9-anthracenyl]- (9CI)  
OTHER NAMES:  
CN [10-[3-(Naphthalen-2-yl)phenyl]anthracen-9-yl]boronic acid  
MF C30 H21 B O2  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12 REFERENCES IN FILE CA (1907 TO DATE)  
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

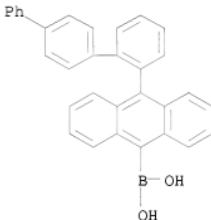
L2 ANSWER 7 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-53-6 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Naphthalene, 1-(3-bromophenyl)- (CA INDEX NAME)  
OTHER NAMES:  
CN 3-(1-Naphthyl)-1-bromobenzene  
MF C16 H11 Br  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

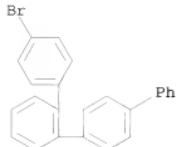
L2 ANSWER 8 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-52-5 REGISTRY  
 ED Entered STN: 06 Jul 2005  
 CN Boronic acid, (10-[1,1':4',1'''-terphenyl]-2-yl-9-anthracenyl)- (9CI) (CA INDEX NAME)  
 MF C32 H23 B O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

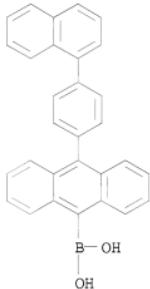
L2 ANSWER 9 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-51-4 REGISTRY  
 ED Entered STN: 06 Jul 2005  
 CN 1,1':2',1'''-Quaterphenyl, 4-bromo- (9CI) (CA INDEX NAME)  
 MF C24 H17 Br  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-50-3 REGISTRY  
 ED Entered STN: 06 Jul 2005  
 CN Boronic acid, B-[10-[4-(1-naphthalenyl)phenyl]-9-anthracyl]- (CA INDEX  
 NAME)  
 OTHER CA INDEX NAMES:  
 CN Boronic acid, [10-[4-(1-naphthalenyl)phenyl]-9-anthracyl]- (9CI)  
 OTHER NAMES:  
 CN 10-(4-(1-Naphthalenyl)phenyl)anthracene-9-boric acid  
 DR 871320-05-7  
 MF C30 H21 B O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL

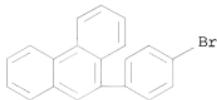


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11 REFERENCES IN FILE CA (1907 TO DATE)  
 11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-49-0 REGISTRY  
 ED Entered STN: 06 Jul 2005

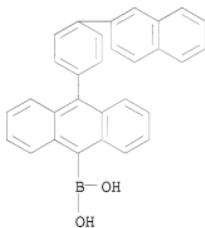
CN Phenanthrene, 9-(4-bromophenyl)- (CA INDEX NAME)  
MF C20 H13 Br  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

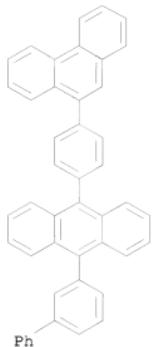
L2 ANSWER 12 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-48-9 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Boronic acid, B-[10-[4-(2-naphthalenyl)phenyl]-9-anthracyl]- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Boronic acid, [10-[4-(2-naphthalenyl)phenyl]-9-anthracyl]- (RCI)  
MF C30 H21 B O2  
SR CA  
LC STN Files: CA, CAPLUS, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-47-8 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(9-phenanthrenyl)phenyl]- (CA INDEX NAME)  
MF C46 H30  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

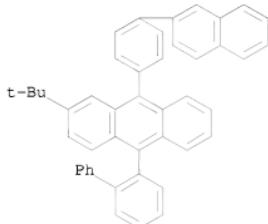
L2 ANSWER 14 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-46-7 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(1-naphthalenyl)phenyl]- (CA  
INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

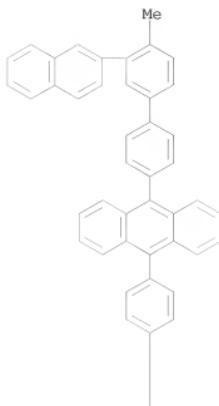
L2 ANSWER 15 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-45-6 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 10-[1,1'-biphenyl]-2-yl-2-(1,1-dimethylethyl)-9-[4-(2-naphthalenyl)phenyl]- (CA INDEX NAME)  
MF C46 H36  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

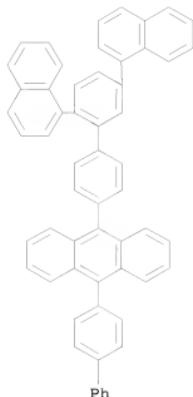
L2 ANSWER 16 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-44-5 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[4'-methyl-3'-(2-naphthalenyl)[1,1'-biphenyl]-4-yl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)  
MF C53 H36  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

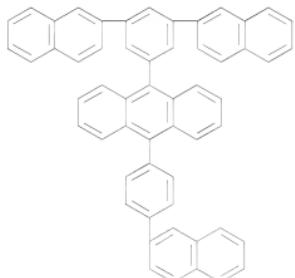
L2 ANSWER 17 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-43-4 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-4-yl-10-(2',5'-di-1-naphthalenyl[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)  
MF C58 H38  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

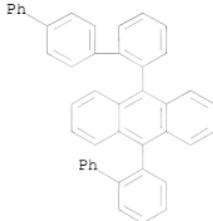
L2 ANSWER 18 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-42-3 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-(3,5-di-2-naphthalenylphenyl)-10-[4-(2-naphthalenyl)phenyl]-(CA INDEX NAME)  
MF C56 H36  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

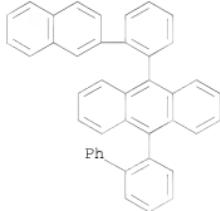
L2 ANSWER 19 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-41-2 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[1,1':4',1'''-terphenyl]-2-yl- (9CI)  
(CA INDEX NAME)  
MF C44 H30  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

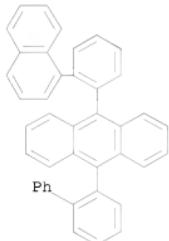
L2 ANSWER 20 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-40-1 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[2-(2-naphthalenyl)phenyl]- (CA INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

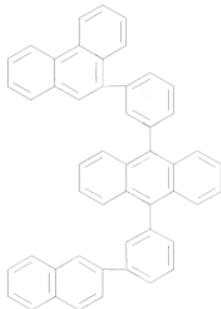
L2 ANSWER 21 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-39-8 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[2-(1-naphthalenyl)phenyl]- (CA  
INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

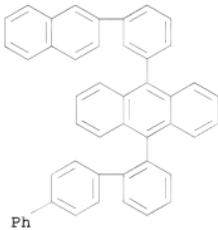
L2 ANSWER 22 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-38-7 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[3-(9-phenanthrenyl)phenyl]- (CA INDEX NAME)  
MF C50 H32  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-37-6 REGISTRY  
 ED Entered STN: 06 Jul 2005  
 CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[1,1':4',1''-terphenyl]-2-yl-  
 (9CI) (CA INDEX NAME)  
 MF C48 H32  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

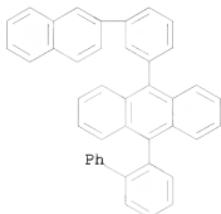


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 853945-36-5 REGISTRY  
 ED Entered STN: 06 Jul 2005  
 CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(2-naphthalenyl)phenyl]- (CA  
 INDEX NAME)

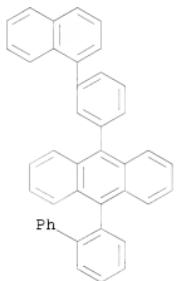
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7 REFERENCES IN FILE CA (1907 TO DATE)  
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-35-4 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(1-naphthalenyl)phenyl]- (CA INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

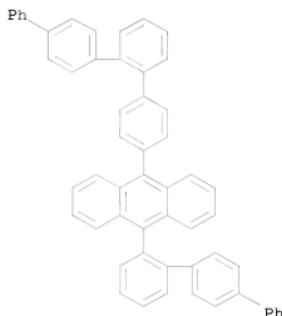


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-34-3 REGISTRY

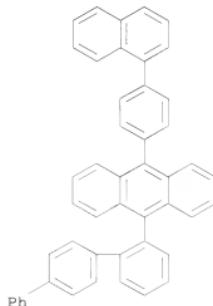
ED    Entered STN: 06 Jul 2005  
CN    Anthracene, 9-[1,1':2',1'':4'',1'''-quaterphenyl]-4-yl-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)  
MF    C56 H38  
SR    CA  
LC    STN Files:    CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

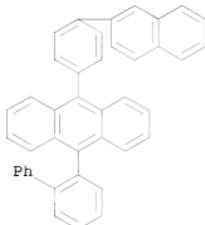
L2    ANSWER 27 OF 52    REGISTRY    COPYRIGHT 2011 ACS on STN  
RN    853945-33-2    REGISTRY  
ED    Entered STN: 06 Jul 2005  
CN    Anthracene, 9-[4-(1-naphthalenyl)phenyl]-10-[1,1':4',1'''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)  
MF    C48 H32  
SR    CA  
LC    STN Files:    CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

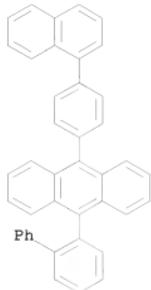
L2 ANSWER 28 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-32-1 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(2-naphthalenyl)phenyl]- (CA  
INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

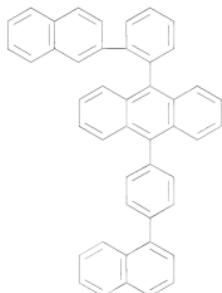
L2 ANSWER 29 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-31-0 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(1-naphthalenyl)phenyl]- (CA  
INDEX NAME)  
MF C42 H28  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-30-9 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[2-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]-  
(CA INDEX NAME)  
MF C46 H30  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

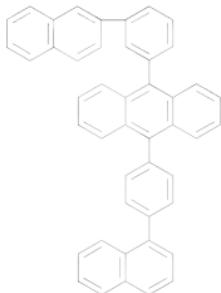


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

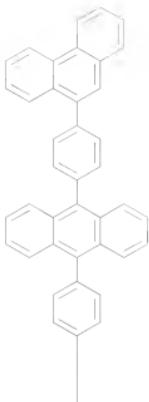
RN 853945-29-6 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]-  
(CA INDEX NAME)  
MF C46 H30  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9 REFERENCES IN FILE CA (1907 TO DATE)  
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

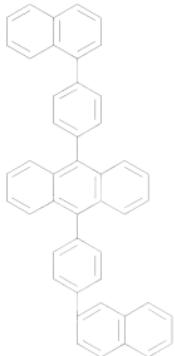
L2 ANSWER 32 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-28-5 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[4-(2-naphthalenyl)phenyl]-10-[4-(9-phenanthrenyl)phenyl]-  
(CA INDEX NAME)  
MF C50 H32  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 853945-27-4 REGISTRY  
ED Entered STN: 06 Jul 2005  
CN Anthracene, 9-[4-(1-naphthalenyl)phenyl]-10-[4-(2-naphthalenyl)phenyl]-  
(CA INDEX NAME)  
MF C46 H30  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL

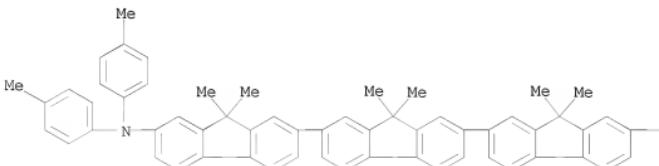


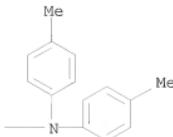
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

26 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 669016-16-4 REGISTRY  
ED Entered STN: 30 Mar 2004  
CN [2,2':7',2''-Ter-9H-fluorene]-7,7''-diamine,  
9,9',9'',9''-hexamethyl-N7,N7,N7'',N7'''-tetrakis(4-methylphenyl)-  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN [2,2':7',2''-Ter-9H-fluorene]-7,7''-diamine,  
9,9',9'',9''-hexamethyl-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI)  
MF C73 H64 N2  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

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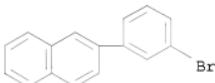




\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

21 REFERENCES IN FILE CA (1907 TO DATE)  
 21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

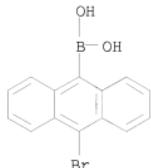
L2 ANSWER 35 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 667940-23-0 REGISTRY  
 ED Entered STN: 26 Mar 2004  
 CN Naphthalene, 2-(3-bromophenyl)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-(3-Bromophenyl)naphthalene  
 MF C16 H11 Br  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

18 REFERENCES IN FILE CA (1907 TO DATE)  
 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

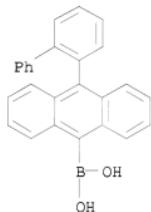
L2 ANSWER 36 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 641144-16-3 REGISTRY  
 ED Entered STN: 23 Jan 2004  
 CN Boronic acid, B-(10-bromo-9-anthracenyl)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Boronic acid, (10-bromo-9-anthracenyl)- (9CI)  
 OTHER NAMES:  
 CN 9-Bromoanthracen-10-boronic acid  
 CN 9-Bromoanthracene-10-boronic acid  
 MF C14 H10 B Br O2  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

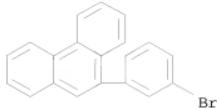
L2 ANSWER 37 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 400607-48-9 REGISTRY  
 ED Entered STN: 12 Mar 2002  
 CN Boronic acid, B-(10-[1,1'-biphenyl]-2-yl-9-anthracenyl)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Boronic acid, (10-[1,1'-biphenyl]-2-yl-9-anthracenyl)- (9CI)  
 MF C26 H19 B O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

16 REFERENCES IN FILE CA (1907 TO DATE)  
 16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

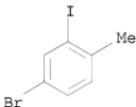
L2 ANSWER 38 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 377737-89-8 REGISTRY  
 ED Entered STN: 21 Dec 2001  
 CN Phenanthrene, 9-(3-bromophenyl)- (CA INDEX NAME)  
 MF C20 H13 Br  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

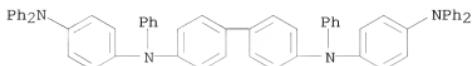
L2 ANSWER 39 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 260558-15-4 REGISTRY  
 ED Entered STN: 03 Apr 2000  
 CN Benzene, 4-bromo-2-iodo-1-methyl- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 4-Bromo-2-iodotoluene  
 MF C7 H6 Br I  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, TOXCENTER, USPAT2,  
 USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9 REFERENCES IN FILE CA (1907 TO DATE)  
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

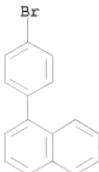
L2 ANSWER 40 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 209980-53-0 REGISTRY  
 ED Entered STN: 16 Aug 1998  
 CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4'-bis[4-(diphenylamino)phenyl]-N4,N4'-diphenyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [1,1'-Biphenyl]-4,4'-diamine, N,N'-bis[4-(diphenylamino)phenyl]-N,N'-diphenyl- (9CI)  
 OTHER NAMES:  
 CN 4,4'-Bis[N-(4-diphenylaminophenyl)-N-phenylamino]biphenyl  
 CN 4,4'-Bis[N-phenyl-N-[4-(diphenylamino)phenyl]amino]-1,1'-biphenyl  
 MF C60 H46 N4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

80 REFERENCES IN FILE CA (1907 TO DATE)  
80 REFERENCES IN FILE CAPLUS (1907 TO DATE)

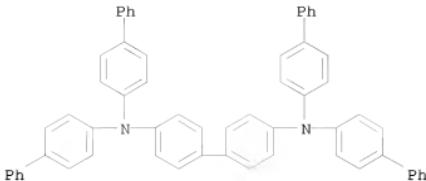
L2 ANSWER 41 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 204530-94-9 REGISTRY  
ED Entered STN: 23 Apr 1998  
CN Naphthalene, 1-(4-bromophenyl)- (CA INDEX NAME)  
OTHER NAMES:  
CN 1-(4-Bromophenyl)naphthalene  
CN 1-(p-Bromophenyl)naphthalene  
MF C16 H11 Br  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

38 REFERENCES IN FILE CA (1907 TO DATE)  
38 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 42 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 164724-35-0 REGISTRY  
ED Entered STN: 13 Jul 1995  
CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4,N4',N4'-tetrakis([1,1'-biphenyl]-4-yl)- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN [1,1'-Biphenyl]-4,4'-diamine, N,N,N',N'-tetrakis([1,1'-biphenyl]-4-yl)- (9CI)  
OTHER NAMES:  
CN 4,4'-Bis[bis(4-biphenyl)amino]biphenyl  
CN N,N,N',N'-Tetra(4-biphenyl)benzidine  
CN N,N,N',N'-Tetrakis(biphenyl-4-yl)benzidine  
MF C60 H44 N2  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPAT2, USPATFULL

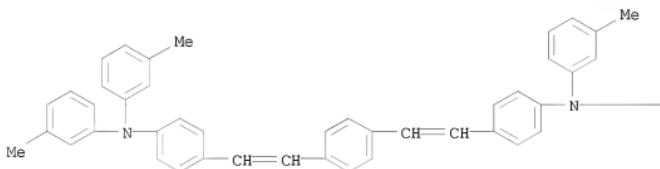


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

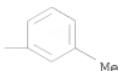
119 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 119 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 43 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 154853-83-5 REGISTRY  
 ED Entered STN: 06 May 1994  
 CN Benzenamine, 4,4'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)-] (CA INDEX NAME)  
 MF C50 H44 N2  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

PAGE 1-A



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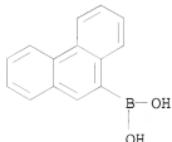


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

28 REFERENCES IN FILE CA (1907 TO DATE)  
 28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 44 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

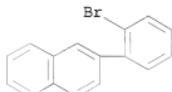
RN 68572-87-2 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Boronic acid, B-9-phenanthrenyl- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 9-Phenanthreneboronic acid (6CI)  
CN Boronic acid, 9-phenanthrenyl- (9CI)  
OTHER NAMES:  
CN (9-Phenanthryl)boronic acid  
CN Phenanthren-9-ylboronic acid  
MF C14 H11 B O2  
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,  
REAXYSFILE\*, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

127 REFERENCES IN FILE CA (1907 TO DATE)  
129 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 45 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 22082-97-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Naphthalene, 2-(2-bromophenyl)- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Naphthalene, 2-(o-bromophenyl)- (8CI)  
OTHER NAMES:  
CN 2-(2-Bromophenyl)naphthalene  
CN 2-Naphthylbromobenzene  
MF C16 H11 Br  
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, REAXYSFILE\*,  
USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

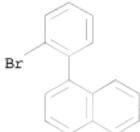


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 46 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

RN 18937-92-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Naphthalene, 1-(2-bromophenyl)- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Naphthalene, 1-(o-bromophenyl)- (8CI)  
OTHER NAMES:  
CN 1-(2-Bromophenyl)naphthalene  
MF C16 H11 Br  
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, REAXYSFILE\*, USPAT2,  
USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

25 REFERENCES IN FILE CA (1907 TO DATE)  
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

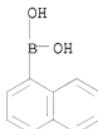
L2 ANSWER 47 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 18801-00-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Anthracene, 2-(1,1-dimethylethyl)- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Anthracene, 2-tert-butyl- (6CI, 7CI, 8CI)  
OTHER NAMES:  
CN 2-(1,1-Dimethylethyl)anthracene  
CN 2-tert-Butylanthracene  
MF C18 H18  
CI COM  
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, IFICDB,  
IFIPAT, IFIUDB, REAXYSFILE\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL,  
USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

62 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

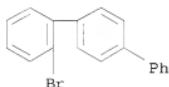
L2 ANSWER 48 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 13922-41-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Boronic acid, B-1-naphthalenyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1-Naphthaleneboronic acid (6CI, 7CI, 8CI)  
 CN Boronic acid, 1-naphthalenyl- (9CI)  
 OTHER NAMES:  
 CN (1-Naphthalenyl)boronic acid  
 CN  $\alpha$ -Naphthaleneboronic acid  
 CN  $\alpha$ -Naphthylboronic acid  
 CN 1-Naphthylboric acid  
 CN 1-Naphthylboronic acid  
 CN NSC 78936  
 MF C10 H9 B O2  
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,  
     CHEMLIST, GMELIN\*, IFICDB, IFIPAT, IFIUDB, REAXYSFILE\*, TOXCENTER,  
     USPAT2, USPATFULL, USPATOLD  
     (\*File contains numerically searchable property data)



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*\*

1495 REFERENCES IN FILE CA (1907 TO DATE)  
 11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1503 REFERENCES IN FILE CAPLUS (1907 TO DATE)

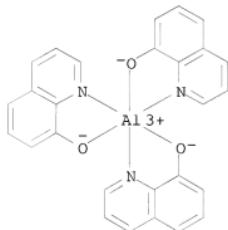
L2 ANSWER 49 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 3282-24-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1,1':4',1''-Terphenyl, 2-bromo- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN p-Terphenyl, 2-bromo- (7CI, 8CI)  
 MF C18 H13 Br  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, REAXYSFILE\*, USPATFULL  
     (\*File contains numerically searchable property data)



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 50 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 2085-33-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Aluminum, tris(8-quinolinolato- $\kappa$ N1,  $\kappa$ O8)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Aluminum, tris(8-quinolinolato)- (6CI, 7CI, 8CI)  
 CN Aluminum, tris(8-quinolinolato-N1, O8)-  
 OTHER NAMES:  
 CN 8-Hydroxyquinoline aluminum  
 CN Al 8Q  
 CN Alq  
 CN Alq3  
 CN Aluminum 8-hydroxyquinolinate  
 CN Aluminum oxinate  
 CN Aluminum tris(8-hydroxyquinolinate)  
 CN Aluminum tris(8-quinolinolate)  
 CN Aluminum, tris(8-hydroxyquinolinato)-  
 CN Hydroxyquinoline aluminum  
 CN LT-E 401  
 CN Tri-8-quinolinolatoaluminum  
 CN Tris(8-hydroxyquinolato)aluminum  
 CN Tris(8-hydroxyquinolinate)aluminum  
 CN Tris(8-hydroxyquinolinato)aluminum  
 CN Tris(8-hydroxyquinolinol-N1, O8)aluminum  
 CN Tris(8-quinolinol)aluminum  
 CN Tris(8-quinolinolato)aluminum  
 CN Tris(8-quinolinolato)aluminum(III)  
 CN Tris-(8-hydroxyquinoline)aluminum  
 DR 11094-99-8, 24731-66-6  
 MF C27 H18 Al N3 O3  
 CI CCS, COM  
 LC STN Files: AGRICOLA, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, GMELIN\*,  
 IFICDB, IFIPAT, IFIUDB, MRCK\*, PIRA, REAXYSFILE\*, RTECS\*, TOXCENTER,  
 USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10575 REFERENCES IN FILE CA (1907 TO DATE)  
 48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 10782 REFERENCES IN FILE CAPLUS (1907 TO DATE)

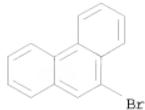
L2 ANSWER 51 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 2052-07-5 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1,1'-Biphenyl, 2-bromo- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Biphenyl, 2-bromo- (6CI, 7CI, 8CI)  
OTHER NAMES:  
CN 1-Bromo-2-phenylbenzene  
CN 2-Biphenyl bromide  
CN 2-Biphenyl bromide  
CN 2-Bromo-1,1'-biphenyl  
CN 2-Bromobiphenyl  
CN 2-Phenylbromobenzene  
CN m-Biphenyl bromide  
CN NSC 67353  
CN o-Bromobiphenyl  
CN PBB 1  
MF C12 H9 Br  
LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,  
CSNB, DETHERM\*, GMELIN\*, IFICDB, IFIPAT, IFIUDB, REAXYSFILE\*, SPECINFO,  
TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

602 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
604 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 52 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 573-17-1 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Phenanthrene, 9-bromo- (CA INDEX NAME)  
OTHER NAMES:  
CN 9-Bromophenanthrene  
CN 9-Phenanthryl bromide  
CN NSC 400708  
MF C14 H9 Br  
CI COM  
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,  
CHEMLIST, CSNB, DETHERM\*, EMBASE, GMELIN\*, REAXYSFILE\*, RTECS\*,  
SPECINFO, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

559 REFERENCES IN FILE CA (1907 TO DATE)  
561 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	115.99	123.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.87

FILE 'REGISTRY' ENTERED AT 18:07:29 ON 22 SEP 2011  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5  
DICTIONARY FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5

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TSCA INFORMATION NOW CURRENT THROUGH June 24, 2011.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 43 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 154853-83-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.61	123.93
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.87

FILE 'CAPLUS' ENTERED AT 18:07:32 ON 22 SEP 2011  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 22 Sep 2011 VOL 155 ISS 13

FILE LAST UPDATED: 21 Sep 2011 (20110921/ED)

REVISED CLASS FIELDS (NCL) LAST RELOADED: Jun 2011

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2011.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3

L4 28 L3

=> S L4 AND 1999<=PY<=2002

3962751 1999<=PY<=2002

L5 1 L4 AND 1999<=PY<=2002

=> DIS L5 1 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 2000:115248 CAPLUS  
DOCUMENT NUMBER: 132:158896  
TITLE: Electrophotographic photoreceptor suitable for use  
with semiconductor laser for process cartridge of  
electrophotographic apparatus  
INVENTOR(S): Kunieda, Mitsuhiro  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 20000047404	A	20000218	JP 1998-217781	19980731 <--
JP 3937602	B2	20070627		
PRIORITY APPLN. INFO.:			JP 1998-217781	19980731
OTHER SOURCE(S):	MARPAT	132:158896		

=> S L4 AND 2003<=PY<=2004  
2474565 2003<=PY<=2004

L6 5 L4 AND 2003<=PY<=2004

=> DIS L6 1 IBIB  
THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 2004:453560 CAPLUS  
DOCUMENT NUMBER: 141:30841  
TITLE: Organic electroluminescent device  
INVENTOR(S): Funahashi, Masakazu; Fukuoka, Kenichi; Hosokawa,  
Chishio  
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 52 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004047500	A1	20040603	WO 2003-JP14426	20031113 <--
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004171828	A	20040617	JP 2002-333865	20021118 <--
JP 4152173	B2	20080917		
EP 1578175	A1	20050921	EP 2003-774011	20031113
EP 1578175	B1	20110511		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1714605	A	20051228	CN 2003-80103556	20031113
CN 100483776	C	20090429		

KR 1009784	B1	20110119	KR 2005-7008947	20031113
AT 509504	T	20100515	AT 2003-774011	20031113
US 20060055305	A1	20060316	US 2005-535311	20050518
JP 2008258641	A	20081023	JP 2008-122897	20080509
PRIORITY APPLN. INFO.:			JP 2002-333865	A 20021118
			WO 2003-JP14426	W 20031113

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD  
 (13 CITINGS)  
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L6 2 IBIB  
 THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2004:453559 CAPLUS  
 DOCUMENT NUMBER: 1411:14295  
 TITLE: Organic electroluminescent device  
 INVENTOR(S): Fukuoka, Kenichi; Matsuura, Masahide; Yamamoto, Hiroshi; Hosokawa, Chishio  
 PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 76 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004047499	A1	20040603	WO 2003-JP14425	20031113 <--
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004221045	A	20040805	JP 2003-152276	20030529 <--
JP 4287198	B2	20090701		
EP 1565041	A1	20050817	EP 2003-774010	20031113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LT, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1729725	A	20060201	CN 2003-80106876	20031113
CN 100518424	C	20090722		
KR 1008769	B1	20101114	KR 2005-7008946	20031113
US 20060043859	A1	20060302	US 2005-535310	20050518
US 7663304	B2	20100216		
JP 2009105067	A	20090514	JP 2009-26587	20090206
US 20100141129	A1	20100610	US 2010-654965	20100111
PRIORITY APPLN. INFO.:			JP 2002-333812	A 20021118
			JP 2003-152276	A 20030529
			WO 2003-JP14425	W 20031113
			US 2005-535310	A1 20050518

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OTHER SOURCE(S): MARPAT 1411:14295  
 OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD  
 (11 CITINGS)  
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y/N:Y)

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 2004:198497 CAPLUS  
DOCUMENT NUMBER: 140:225545  
TITLE: Phenylanthracenes for blue-emitting organic  
electroluminescent devices having high luminescent  
intensity and efficiency  
INVENTOR(S): Kawamura, Hisayuki  
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004075580	A	20040311	JP 2002-235538	20020813 <--
JP 4065161	B2	20080319		
PRIORITY APPLN. INFO.:			JP 2002-235538	20020813
OTHER SOURCE(S):	MARPAT	140:225545		
OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)		

=> DIS L6 4 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y/N:Y)

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 2004:162657 CAPLUS  
DOCUMENT NUMBER: 140:225502  
TITLE: Oligoarylene derivatives for organic  
electroluminescent devices  
INVENTOR(S): Ikeda, Hidetsugu; Matsuura, Masahide; Kawamura,  
Hisayuki  
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 35 pp.  
CODEN: PIXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016575	A1	20040226	WO 2003-JP10071	20030807 <--
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004075567	A	20040311	JP 2002-234833	20020812 <--
EP 1533290	A1	20050525	EP 2003-788055	20030807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1675149	A	20050928	CN 2003-819058	20030807
TW 287408	B	20070921	TW 2003-122023	20030811
US 20060134456	A1	20060622	US 2005-522546	20050127

US 7429425	B2	20080930		
US 20090009073	A1	20090108	US 2008-208237	20080910
US 20090009074	A1	20090108	US 2008-208253	20080910
PRIORITY APPLN. INFO.:			JP 2002-234833	A 20020812
			WO 2003-JP10071	W 20030807
			US 2005-522546	A1 20050127
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 140:225502				
OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (48 CITINGS)				
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

=> DIS L6 5 IBIB  
 THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6	ANSWER 5 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER:	2004:157685 CAPLUS
DOCUMENT NUMBER:	140:225494
TITLE:	Anthracenes as electroluminescent substances for organic electroluminescent devices
INVENTOR(S):	Ikeda, Shuji; Ido, Motohisa; Funabashi, Masakazu; Shoji, Hiroshi
PATENT ASSIGNEE(S):	Idemitsu Kosan Co., Ltd., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 26 pp.
DOCUMENT TYPE:	CODEN: JKXXAF
LANGUAGE:	Patent
FAMILY ACC. NUM. COUNT:	Japanese
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004059535	A	20040226	JP 2002-222990	20020731 <--
JP 4025136	B2	20071219		
PRIORITY APPLN. INFO.:			JP 2002-222990	20020731
OTHER SOURCE(S):		MARPAT 140:225494		
OS.CITING REF COUNT:		3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)		

=> d his

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 L1 1 S E3  
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 L2 52 S E1-E52  
 FILE 'REGISTRY' ENTERED AT 18:07:29 ON 22 SEP 2011  
 SET TERMSET E#  
 DEL SEL Y  
 SEL L2 43 RN  
 L3 1 S E1/RN

SET TERMSET LOGIN

FILE 'CAPPLUS' ENTERED AT 18:07:32 ON 22 SEP 2011

L4 28 S L3

L5 1 S L4 AND 1999<=PY<=2002

L6 5 S L4 AND 2003<=PY<=2004